BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST areas and Surrounding Areas in Ward no.01 Yelahanka Sub Division

							Estimation Cost.Rs		9900000
Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
1	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Venkatala Layout								
	Drain Cover Deck Slab								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum	1	210	1.4	0.1	29.4		
	Culvert								
	Venkatala Layout								
	kere Kodi Road Rudrabhoomi	cum	1	10.2	1.4	0.9	12.852		
	Basic rate							557.00	
	Area weightage 6%							33.42	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**42.25**	**660.22**	**27895.62**
2	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,								
	Drain								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum	1	210	1.4	0.9	264.6		
	Ramanna House to Join kere Kodi main road drain	Cum	1	90	0.7	0.6	37.8		
	Basic rate							351.00	
	Area weightage 6%							21.06	

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**302.40**	**441.86**	**133618.46**
3	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH/ Chapter 3 Pg No.143, Item No.19.1 & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Earthwork Excavation for new Drain								
	for new Drain								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum	1	210	1.5	1.45	456.75		
	Ramanna House to Join kere Kodi main road drain	Cum	1	90	1.4	1.45	182.7		
	kere Kodi Road	Cum	1	60	1.4	1.25	105		
	2nd main road	Cum	2	31	1	1.2	74.4		
	beside School building	Cum	1	40	1	1.2	48		
	for new Culvert								
	Venkatala Layout								
	kere Kodi Road Rudrabhoomi	cum	1	10.2	1.8	1.3	23.868		
	cross Road	cum	1	5.5	1.8	1.3	12.87		
	Basic rate							130.00	
	Area weightage							7.8	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**903.59**	**207.60**	**187584.87**
4	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS Pg no:7 Item no:2.15								
	New Drain								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum	1	210	1.5	0.2	63		

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
	Ramanna House to Join kere Kodi main road drain	Cum	1	90	1.4	0.2	25.2		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						**88.20**	**2574.74**	**227092.07**
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum	1	210	1.5	0.15	47.25		
	Ramanna House to Join kere Kodi main road drain	Cum	1	90	1.4	0.15	18.9		
	kere Kodi Road	Cum	1	60	1.4	0.15	12.6		
	2nd main road	Cum	2	31	1	0.15	9.3		
	beside School building	Cum	1	40	1	0.15	6		
	for new Culvert								
	Venkatala Layout								
	kere Kodi Road Rudrabhoomi	cum	1	10.2	1.8	0.15	2.754		
	cross Road	cum	1	5.5	1.8	0.15	1.485		
	Basic rate							5115.00	
	Area weightage 6%							306.90	
	Total						**98.29**	**5421.90**	**532913.13**
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Pg No.265 Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Cum							
	Bottom Slab	Cum	1	210	1.5	0.2	63		

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
	Side Walls	Cum	2	210	0.20	0.90	75.6		
	Ramanna House to Join kere Kodi main road drain								
	Bottom Slab	Cum	1	90	1.4	0.2	25.2		
	Side Walls	Cum	2	90.00	0.20	0.90	32.4		
	kere Kodi Road	Cum							
	Bottom Slab	Cum	1	60	1.4	0.2	16.8		
	Side Walls	Cum	2	60	0.2	0.90	21.6		
	2nd main road	Cum							
	Bottom Slab	Cum	2	31	1	0.2	12.4		
	Side Walls	Cum	4	31	0.2	0.90	22.32		
	beside School building								
	Bottom Slab	Cum	1	40	1	0.2	8		
	Side Walls	Cum	2	40	0.2	0.90	14.4		
					Sub Total		**291.72**		
	for new Culvert								
	Venkatala Layout								
	Bottom Slab	Cum	1	10.2	1.8	0.25	4.59		
	Side Walls	Cum	2	10.2	0.25	0.9	4.59		
	cross Road								
	Bottom Slab	Cum	1	5.5	1.8	0.25	2.475		
	Side Walls	Cum	2	5.5	0.25	0.9	2.475		
					Sub Total		**14.13**		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**305.85**	**7070.20**	**2162420.67**
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	for Drain and Culvert	Cum	from item no.06				305.85		
		kg	Steel assumed 90Kg/Cum of Concrete				27526.50		
		tonne					**27.53**		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						**27.53**	**72326.98**	**1990908.61**
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
	New drain cover Slab								
	Keri Kodi Road(Rudrabhoomi SC&ST)	Sqm	1	200	1.5		300		
	Ramanna House to Join kere Kodi main road drain	Sqm	1	90	1.4		126		
	kere Kodi Road	Sqm	1	60	1.4		84		
	2nd main road	Sqm	2	31	1		62		
	beside School building	Sqm	1	40	1		40		
	Data Rate							2337	
	Total						**612.00**	**2337.00**	**1430244.00**
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge (Data Rate)								
	for new Culvert cover Slab								
	Venkatala Layout								
	Keri Kodi Road(Rudrabhoomi SC&ST) in front of Gate	Sqm	1	10	1.5		15		
	kere Kodi Road Rudrabhoomi	Sqm	1	10.2	1.8		18.36		
	cross Road	Sqm	1	5.5	1.8		9.9		
	Data Rate							5418	
	Total						**43.26**	**5418.00**	**234382.68**
10	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Venkatala Layout								
	1st main Road (Near corporator House)	Sqm	1	123	5.7		701.1		
	beside School building	Sqm	1	40	3.5		140		
	Basic rate							39.00	
	Area weightage 6%							2.34	
	Total						**841.10**	**41.34**	**34771.07**

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
11	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground by mechanical means including gilling in depression occuring during rolling including cost of all labour,HOM complete as per specifications. MORTH / Chapter 3(P.No.147,I.No.19.64)								
	Venkatala Layout								
	1st main Road (Near corporator House)	Sqm	1	123	5.7		701.1		
	beside School building	Sqm	1	40	3.5		140		
	Basic rate							6.00	
	Area weightage 6%							0.36	
	Total						**841.10**	**6.36**	**5349.40**
12	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3)								
	Venkatala Layout								
	1st main Road (Near corporator House)	Cum	1	123	5.7	0.15	105.165		
	beside School building	Cum	1	40	3.5	0.15	21		
	Basic rate							5102.00	
	Area weightage							306.12	
	Total						**126.17**	**5408.12**	**682315.46**

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Venkatala Layout								
	1st main Road (Near corporator House)	Cum	1	123	5.7	0.15	105.165		
	beside School building	Cum	1	40	3.5	0.15	21		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**126.17**	**5210.96**	**657440.77**
								Grand Total	**8306936.81**
								DPR CHARGES (1% of estimated cost)	99000
								Project management And Consultancy Charges(1% of estimated cost)	99000
								GST Charges (12% of estimated cost)	996832
								KRIDL Charges (4% of estimated cost)	396000
								Miscellenious and rounding	2231
								TOTAL AMOUNT	**9900000**
								RUPEES NINETY NINE LAKHS ONLY	

Technical Sanction Accorded For Rs 99 lakhs only
Head of A/C P3727
CER NO : 102 Dt: 28/10/19

CE (YNK)

Administrative Sanction for Rs. 99 lakhs
Ninety Nine lakhs only
is accorded under head P-3727
Chief minister Navanagarothana
grant 2018-19
Registered as CE NO
Subject to conditions contained in the above memo
No. EE/Y.NR/AS/24/2019-20 dt 28/10/2019
Executive Engineer

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP